

JET PROPULSION LABORATORY

INTEROFFICE MEMORANDUM

TES DFM #977-4.1.1

10/13/00

TO : Design File
FROM : Ed Miller
SUBJECT: RAD6K Flight Computer HRCR Completion
REF: TES Design File Memo #937-4.2.1

The HRCR for the TES C&DH RAD6K Flight Computer Assembly, ref. des. 2045FC01, was completed on 07/13/2000.

All action items generated at that review have now been closed.

A copy of the completed and signed HRCR form is attached, and is included with the End Item Data Package (EIDP). A hard copy of the EIDP may be found in the TES project files, in the I&T files, and in the JPL Vellum Files.

Electronic copies of all TES EIDP's are being made by optically scanning the packages. These electronic copies will be stored on compact disks which will be available from the TES project office upon completion of the scanning.

cc: TES Design File

TES Hardware Requirements Certification Review

Assembly/Subsystem			Cognizant Engineer		Phone		Section		Date	
TES C& DH/Flight Computer			Jack Wooddell		393-3914		344		07/13/2000	
Ref. Des.	Drawing No.	Dwg. Rev.	Serial No.	Nomenclature			Final IR	Op. Time or Cycles (if avail.)		Mass (Kg)
2045FC 01	180A432	C	FLT031	Module, Assembly MSP Flight Computer			900759	1947 Min. 57 cycles		1.16Kg
Check applicable answer and give necessary explanation in remarks column			Y e s	N o	N / A	Remarks		Data Attachments		Signature Approval & Date
1. Are all drawings and specifications complete, approved, released and frozen ?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			18. Latest Top Assembly Drawings <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None		Cognizant Engineer <i>Jack Wooddell</i>
2. Do the released drawings and specifications reflect all approved changes?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			19. List of open ECRs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Cognizant PSM <i>Bob Strickland</i>
3. Is hardware identical to other hardware delivered? If no, provide difference list.			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Flight spare not delivered yet.		20. Waivers <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None		Materials Engineer <i>Steve Fushberg</i>
4. Does the hardware meet the requirement of its FRs, specifications, waivers and/or ICDs ? If no, provide difference list. (See Item 28 for reference.)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Waiver 500045 approved		21. Open MRBs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		QA Engineer <i>John Kennedy</i>
5. Have all discrepancies and MRBs been dispositioned and agreed to by Engineering/ QA?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			22. Open Problem Logs & P/FRs <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Mission Assurance Mgr. <i>Steve Wood</i>
6. Has complete as-built list information been submitted to PDMG?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In vendor's End Item Data Package		23. Open Problem Logs & P/FRs on sim. H/W and/or related S/W <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		System Engineer <i>Steve Wood</i>
7. Are required design analyses complete, up to date, approved and archived? Attach identifying list per Item 29.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In EIDP & Waiver 500045		24. Signed Environmental Test Authorization & Summary (ETAS) <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Integration & Test Mgr. <i>Al Smith</i> 7-13-00
8. Have all required environmental qualification tests & analyses called for in D-13144, Table 5.2 been completed?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			25. Assy/ Subsystem Power Data Sheet <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None		Instrument Manager <i>John Miller</i>
9. Is all required assembly and/or subsystem level functional testing completed?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			26. Shortage List <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Other
10. Have applicable telemetry calibration data been submitted to the System Engineer?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			27. Operational Constraints/Idiosyncrasies <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Other
11. Have all required single point failure actions been taken?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			28. Requirements Verification Matrix (reference Item 4) <input checked="" type="checkbox"/> Attached <input type="checkbox"/> None		Other
12. Have all required mass data been submitted?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			29. Design analyses completed, approved & archived (per Item 7) <input type="checkbox"/> Attached <input checked="" type="checkbox"/> None		Other
13. Have all stress, corrosion & flammable material requirements been met ?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Other
14. Have all piece parts, processes and materials been approved by JPL?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Other
15. Has hardware been baked out, cleaned and met all contamination control requirements?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not baked out yet				Other
16. Are all required shipping containers, shipping procedures, special handling procedures, AHSE and SE ready?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Other
17. Is this hardware acceptable for flight?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Acceptable for Integration into Integrated Electronics Module Acceptable for flight after bake out.				Other

Recent discovery of EEPROM solder cracks in R6K
will be repaired prior to TEM HOCO